

PSMD8 (S-14): sc-161178

BACKGROUND

In eukaryotic cells, the selective breakdown of cellular proteins is ensured by their ubiquitination and subsequent degradation by the 26S proteasome. The 26S proteasome is a protease complex that selectively breaks down proteins that have been modified by polyubiquitin chains. It is made up of two multi-subunit complexes: the 20S proteasome chamber, which serves as the proteolytic core of the complex, and two 19S regulatory particles, which recognize and unfold ubiquitinated proteins. PSMD8 (proteasome (prosome, macropain) 26S subunit, non-ATPase, 8), also known as HIP6, HYPF, Nin1p, Rpn12, S14 or p31, is a 257 amino acid protein and regulatory component of the 26S proteasome belonging to the proteasome subunit S14 family. PSMD8 is required for the activation of CDC28 kinase, and is encoded by a gene that maps to human chromosome 19q13.2.

CHROMOSOMAL LOCATION

Genetic locus: PSMD8 (human) mapping to 19q13.2; Psmid8 (mouse) mapping to 7 B1.

SOURCE

PSMD8 (S-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of PSMD8 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-161178 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

PSMD8 (S-14) is recommended for detection of PSMD8 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other PSMD family members.

PSMD8 (S-14) is also recommended for detection of PSMD8 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for PSMD8 siRNA (h): sc-97286, PSMD8 siRNA (m): sc-152563, PSMD8 shRNA Plasmid (h): sc-97286-SH, PSMD8 shRNA Plasmid (m): sc-152563-SH, PSMD8 shRNA (h) Lentiviral Particles: sc-97286-V and PSMD8 shRNA (m) Lentiviral Particles: sc-152563-V.

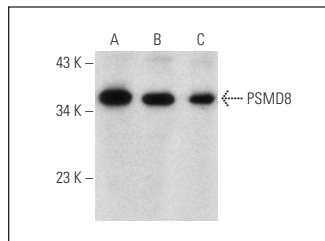
Molecular Weight of PSMD8: 36 kDa.

Positive Controls: ES-2 cell lysate: sc-24674, COLO 320DM cell lysate: sc-2226 or MIA PaCa-2 cell lysate: sc-2285.

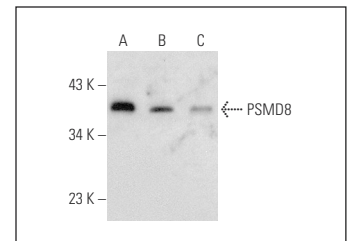
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



PSMD8 (S-14): sc-161178. Western blot analysis of PSMD8 expression in ES-2 (A), COLO 320DM (B) and MIA PaCa-2 (C) whole cell lysates.



PSMD8 (S-14): sc-161178. Western blot analysis of PSMD8 expression in HeLa (A), COLO 320DM (B) and SK-N-MC (C) whole cell lysates.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

MONOS
Satisfaction
Guaranteed

Try **PSMD8 (H-11): sc-514053** or **PSMD8 (A-1): sc-398619**, our highly recommended monoclonal alternatives to PSMD8 (S-14).